Claims:

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1. A system for manipulating an image on a screen, said system comprising:

a touch-sensitive screen for displaying said image;

a stylus for indicating a point on said screen by touching said screen;
and

generating means for generating said image on said screen, said generating means including a dynamic zoom means for carrying out a zoom action on said image on said screen;

wherein said zoom means detects a point indicated by said stylus on said screen, and repeatedly performs a zoom action on said image on said screen using said detected point as the center of said zoom action until said stylus is removed from said screen.

2. The system of claim \ 1, wherein said zoom action comprises an enlargement of said image on said screen about said indicated point.

3. The system of claim 1, wherein said zoom action comprises a reduction of said image on said screen about said indicated point.

4. The system of claim 1, wherein said zoom means continually monitors the position of said stylus on said screen, and wherein, on movement of said stylus across said screen, said zoom means alters the center of said zoom action so that the center of said zoom action follows points on the screen traced by said stylus.

5. The system of claim 1, wherein said image is the graphical form of a mathematical object, and wherein said generating means includes means for generating said graphical form of said mathematical object.

32 6. A method of manipulating an image on a touch-sensitive screen using a stylus, said method comprising the steps of:

1	displaying said image on said screen;
2	detecting an instruction to perform a zoom action on said image;
3	detecting a point of contact of said stylus on said screen;
4	setting a center of said zoom action at said detected point of contact of
5	said stylus on said\screen; and
6	performing said zoom action on said image on said screen using said
7	set center of zoom; and
8	repeating said step of performing said zoom action until it is detected
9	that said stylus has been removed from contact with said screen.
10	
11	7. The method of claim 6, wherein said zoom action is an enlargement of
12	said image on said screen.
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14	8. The method of claim 6, wherein said zoom action is a reduction of said
15	image on said screen.
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17	9. The method of claim 6, \ncluding the step of monitoring the position of
18	said stylus on said screen and changing said center of said zoom action in
19	accordance with movement of said stylus across said screen.
20	
21	10. The method of claim 6, wherein said image is the graphical form of a
22	mathematical object, and wherein said step of displaying an image on said
23	screen includes the step of generating said graphical form of said mathematical
24	object.
25	
26	11. Computer software for manipulating an image on a screen using a stylus
27	and a touch-screen, wherein the software includes:
28	a software component for displaying the image on the screen; and
29	a software component for conducting a zoom action on the image on the
30	screen, said zoom action software component detecting a point
31	indicated by the stylus on the screen and repeatedly performing a zoom
32	action on the image on the screen using the detected point as the center

1	of the zoom action until the stylus is determined to have been removed
2	from the screen.
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4	12. A data-processing system for manipulating an image, said system
5	comprising:
6	display means for displaying said image;
7	indicating means for indicating a point on said display means; and
8	generating means for generating an image on said display means, said
9	generating means including a zoom means for conducting a zoom action on
10	said image on said display means;
11	wherein, when said zoom means is activated, said zoom means
12	determines when said indicating means is indicating to a point on said screen,
13	and sets said indicated point as a zoom center; and
14	wherein said zoom means repeatedly carries out said zoom action on
15	said image on said screen about said zoom center until it is detected that said
16	indicating means has stopped indicating to said point.
17	
18	13. The system of claim 12, wherein said zoom means determines whether
19	said indicating means moves whilst continuing to indicate to a point on said
20	screen, and wherein said zoom means changes said zoom center to track the
21	points indicated by said indicating means during any such movement of said
22	indicating means.
23	
24	14. A data-processing method for the manipulation of an image on a screen,
25	said method comprising the steps of:
26	displaying said image on said screen;
27	detecting an instruction to perform a zoom action on said image;
28	detecting a point on said screen indicated at by an indicating means;
29	setting a center of said zoom action at said indicated point; and
30	conducting said zoom action on said image on said screen about said
31	set center of zoom; and
32	repeating said step of conducting said zoom action until it is detected
33	that said indicating means no longer indicates to said point.

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2	15. The method of claim 14, including the steps of:
3	determining whether said indicating means moves whilst continuing to
1	indicate to points on said\screen; and
5	changing said zoom center to track the points indicated by said
3	indicating means during an such movement of said indicating means.
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